



For Supervisor's use only

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90176



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



National Certificate of Educational Achievement
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

Level 1 Human Biology, 2006

90176 Describe how humans respond to pathogens

Credits: Two

9.30 am Wednesday 22 November 2006

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–6 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

For Assessor's use only		Achievement Criteria	
Achievement		Achievement with Merit	Achievement with Excellence
Describe how humans respond to pathogens.	<input type="checkbox"/>	Explain how humans respond to pathogens.	<input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>	

You are advised to spend 25 minutes answering the questions in this booklet.

QUESTION ONE

- (a) Describe **how** each of the following responses **prevent pathogens from harming** the body.

Blood clots	
Sweat	
Stomach acid	

- (b) Describe how cilia and mucus **work together** to prevent pathogens from entering the lungs.

- (c) Define the term **pathogen**.

A scratch on the hand from a cat can cause an **inflammatory response**.

- (1) _____
- (2) _____

- [illegible]

QUESTION THREEAssessor's
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Explain why a person never becomes immune to the common cold.

Hepatitis B is a disease caused by the hepatitis B virus (HBV). Infection with this virus can cause liver damage. A vaccine can be given to people to protect them from this virus.

b) Describe why more than one injection is needed.

- [illegible]

[illegible]

